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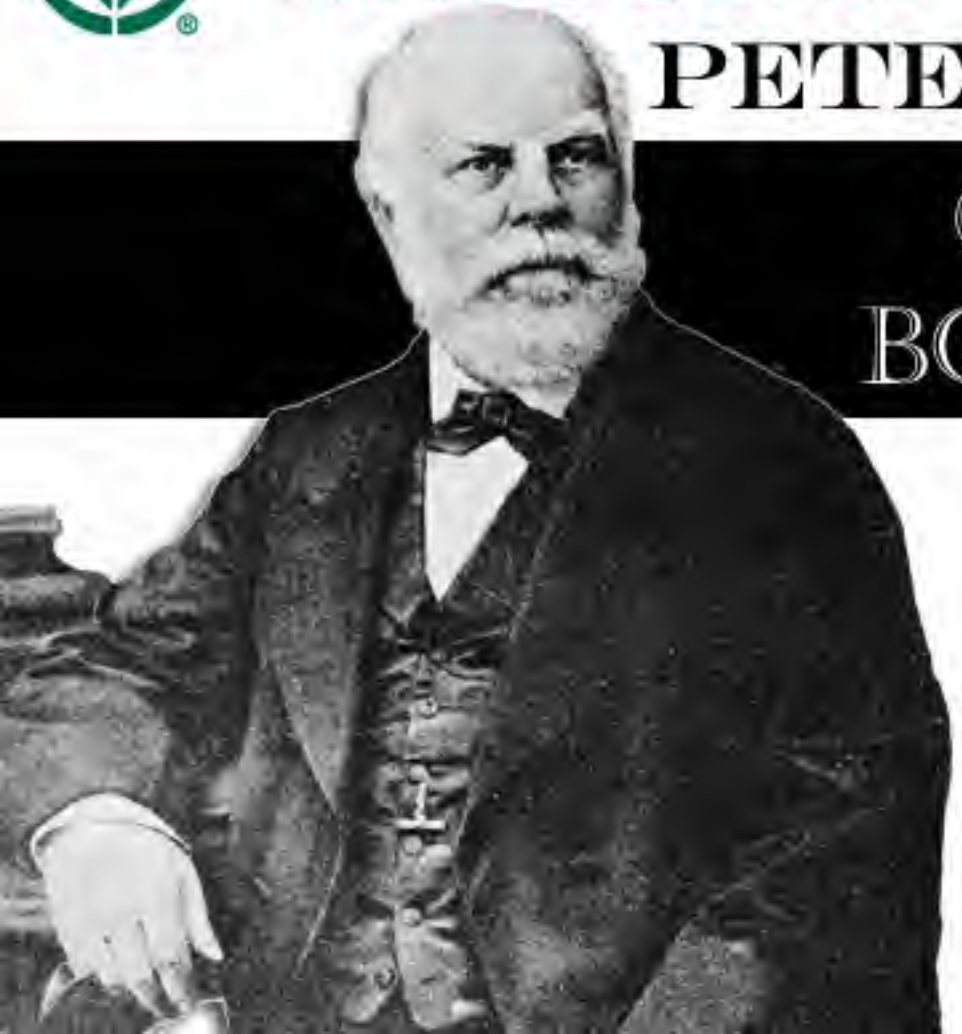

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1-10

119

Orchidaceae

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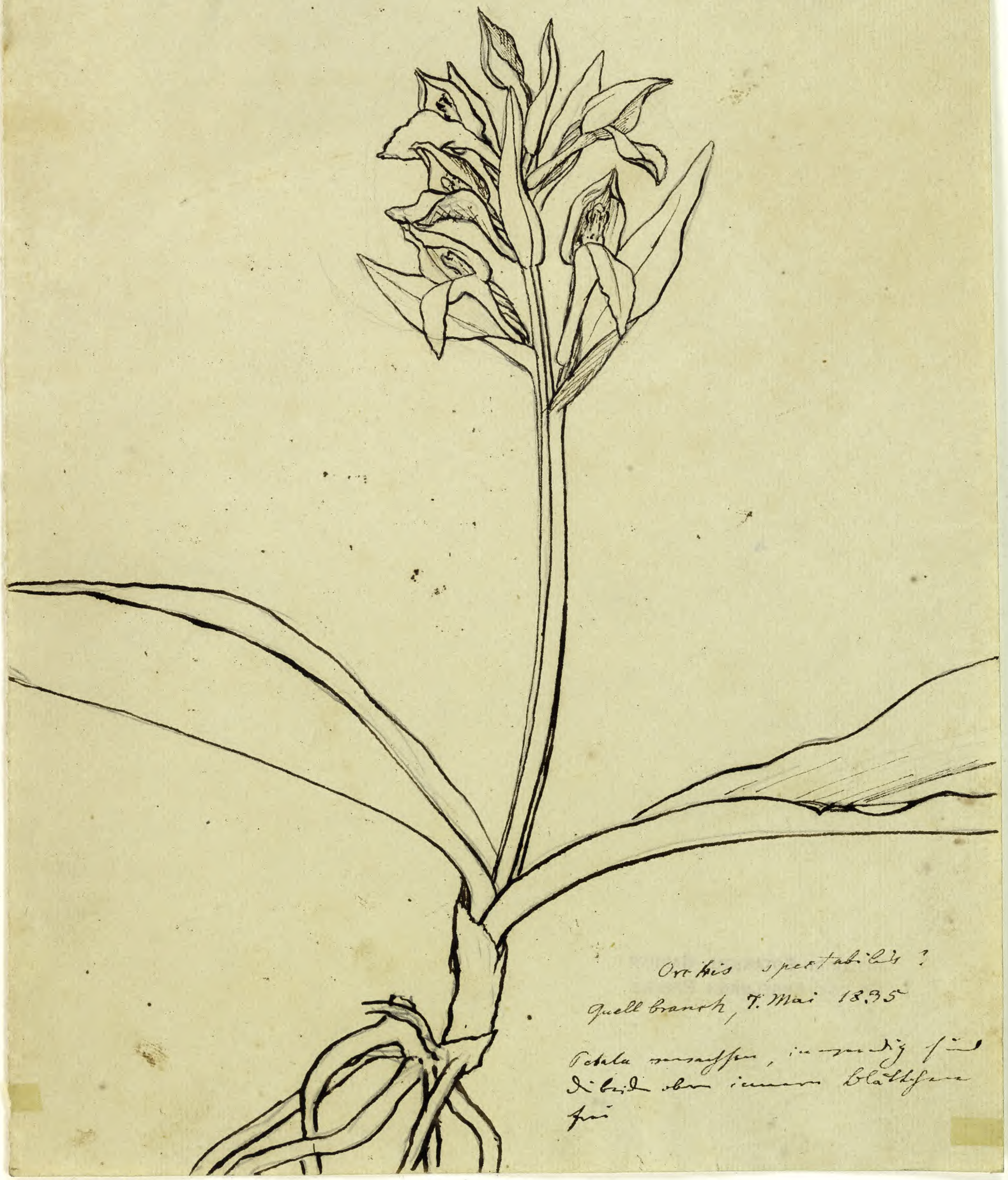

Orchis spectabilis ?

Quell branch, 7. Mai 1835

Petala marcescentia, inaequalia, labio ovato integro

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Jeanne 12 May

Serapias Lingua

S. de vidua of gynostegium magnified

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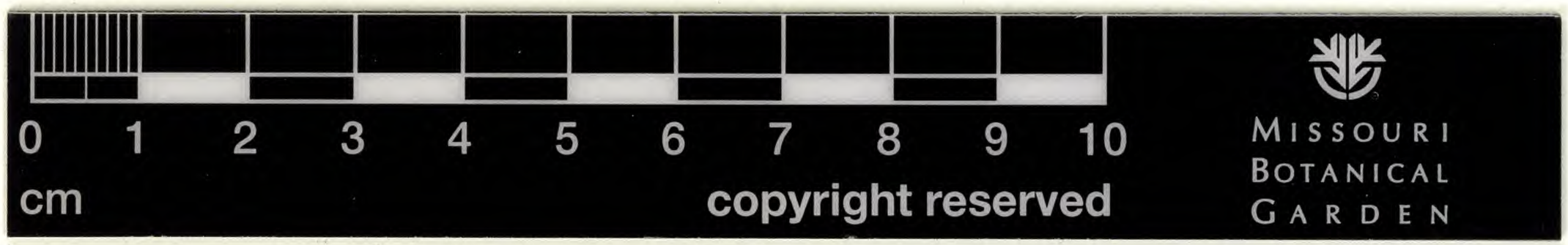

Geneva 12 May

Pescatorea Longipetala

Side view of Gynostegium magnified

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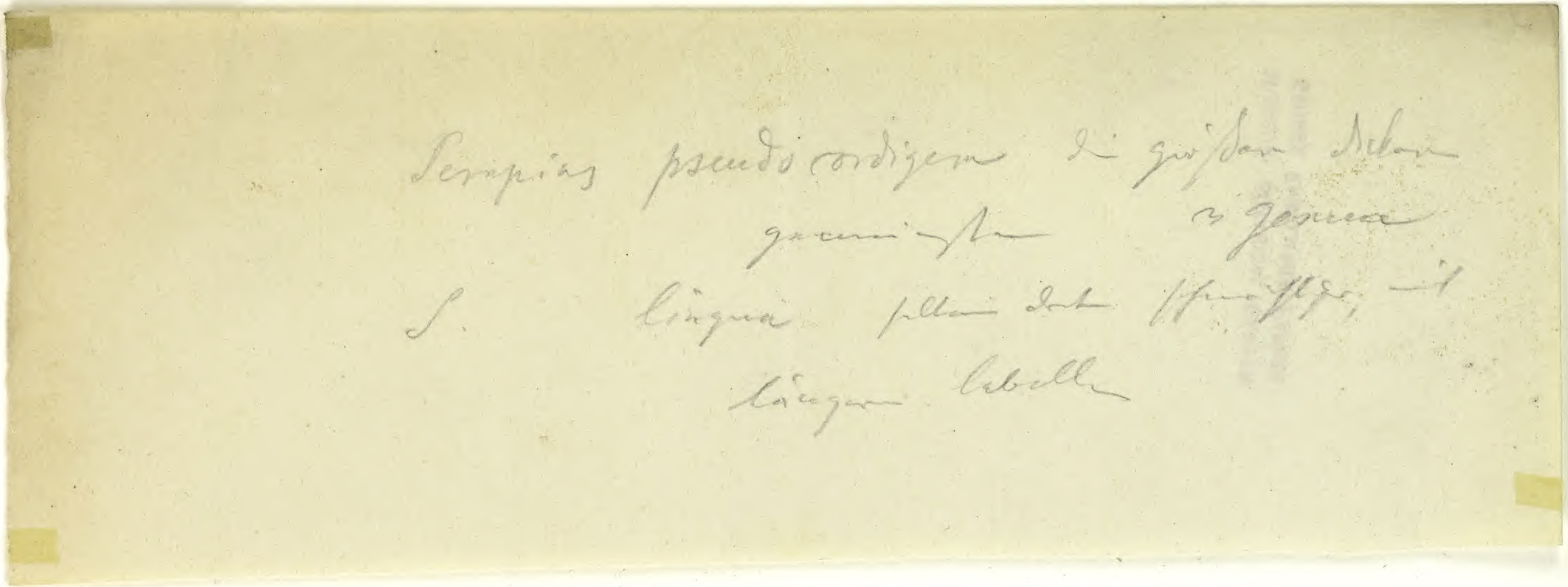

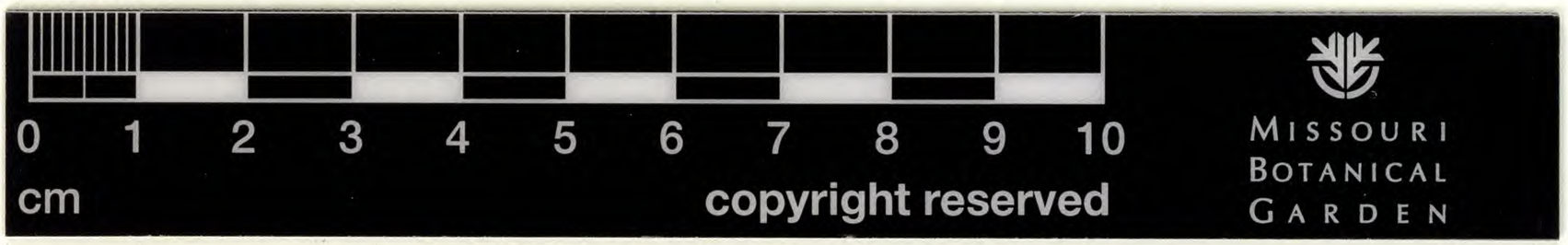
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Ophrys aranifera

Genua 11.5/58

Ophrys flore roseo, labello flavo-viridi, bicornuto, sepalis viridi-fuscis ~~ornato~~ labyrinthiformis ornato, 3 lobo labelli lateralibus viridi villosis medio latiore tridentato, dente medio globuloso

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Ophrys arachnites

Ophrys . flore roseo, labello
fuscato, villoso, medio
macula lucida notato,
apice 3 dytato dato medio
brevissi glandulam viridem
fornante.

Jam 11 May
1818

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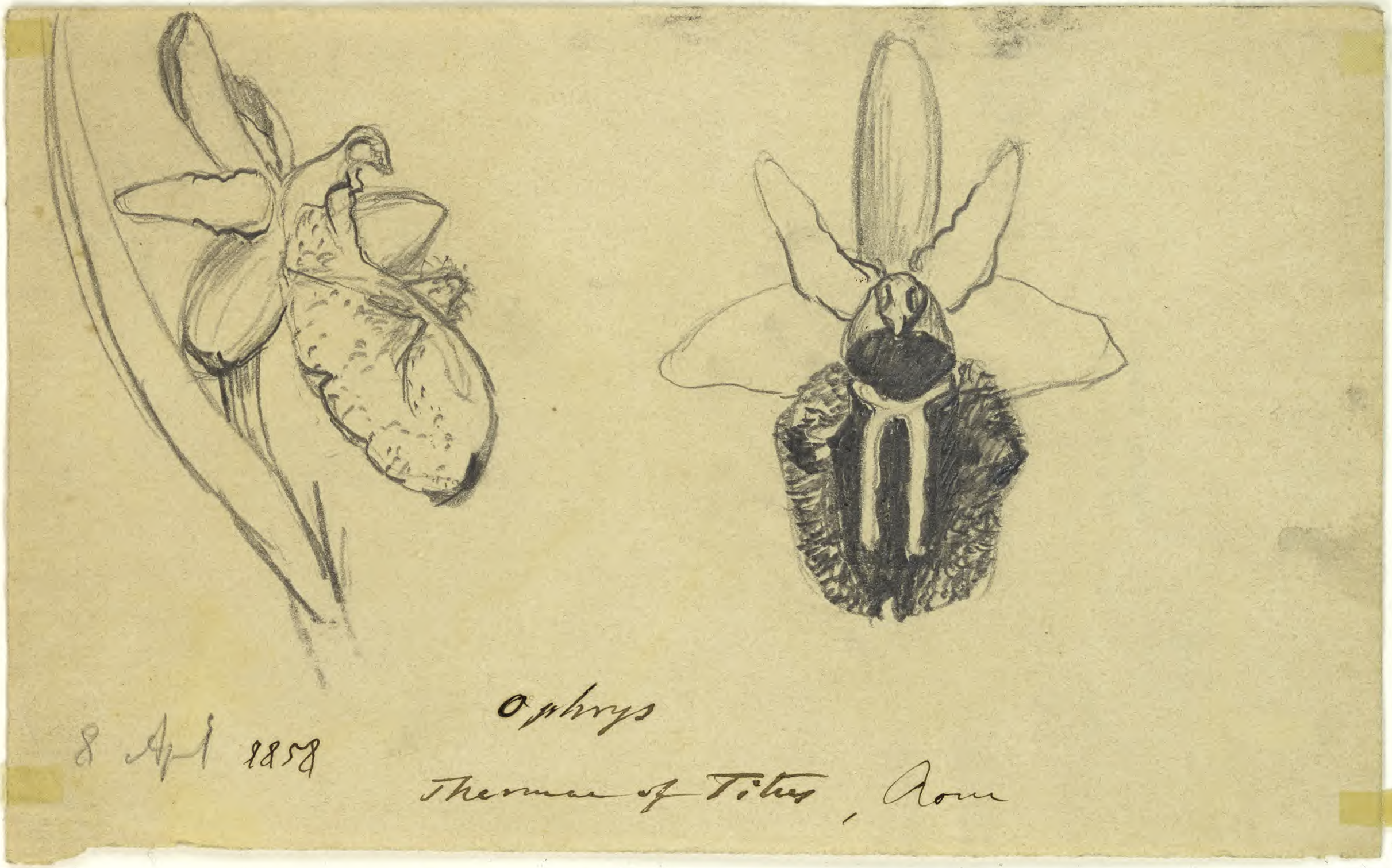

Ophrys

8 April 1858

Thermae of Titus, Rome

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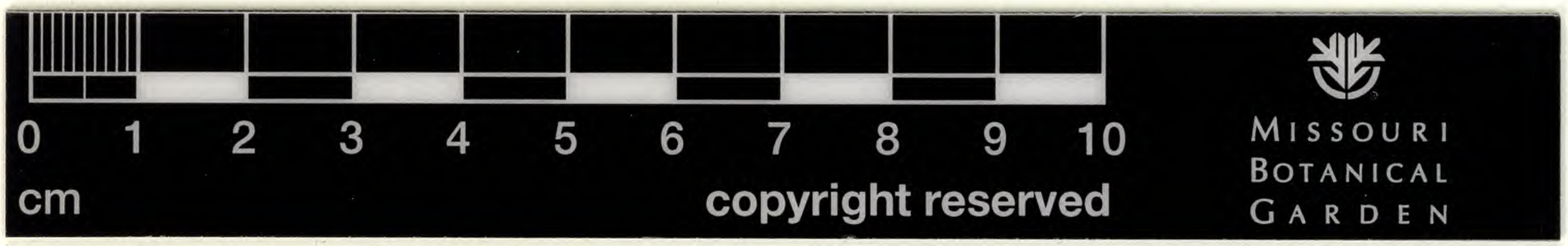

8 April 1858

Thrinax of Titus

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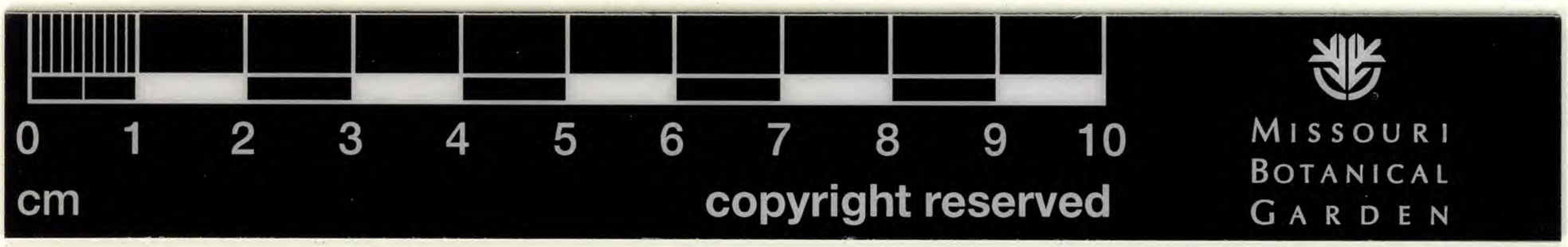

Spiranthes

Aug 22 1882

at Sargent's

×4

Mrs Mary Mitchell

Ann Arbor

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Spermatheca Lasalle Sept 5 1882

x2 Lake Shore, Waukegan Sept 7

Gnathal bones of

Pharynx hairy Edges rather sparsely, at least not covered, bears lateral bars acute, 3 upper ones obtuse Lip concave, pharyngeal, acute.

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42 BEACON ST.

At the request of

Mr Francis Skinner

The Somerset Club.

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Sporophyll, leafy, with 1 Coxa + 3 straight or curved series - all Coxae of equal length
Cabin road, Kenilet canoe
Empire, Aug 9 1974
Norwegian Bar

grassy plateau near Empire
Forest rock or bog or flowers

×4

×4

×10

connectil

connectil

top of Pollen sacks
anther

stigmatic surface

back

front

Pollen sacks

Colored

Pollen sacks

front

back

after removing Pollen

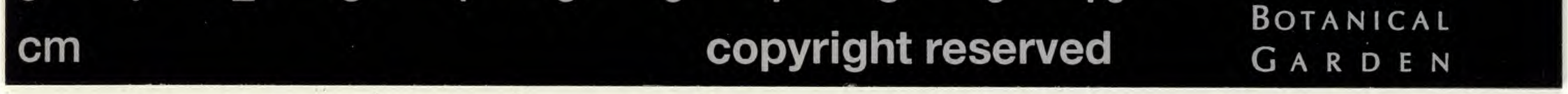
anther freed pollen removed

after removing Pollen

stigma

Cabellum

3 carpels one cell'd ovary placentae alternating with 3 ribs



1693

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Spiranthes

Octob 15 1863

High rocky bluffs of Mississippi, Jefferson Co

X ½

3 cylindric bulbs — leaves withered

Lobes of equal length

Labellum upper side with 2 spurs near base

anther more chocolate brown than purple

front back side front back Labellum

of soaked pollenmasses on back of lobed

Pollen ×415

Pollen masses easily separated into powdery pollen consisting of tetraspores reticulate

×10

ALEX. LEITCH,

APOTHECARY AND CHEMIST,

Marble Building, Cor. Fourth and Olive Streets,

ST. LOUIS, MO.

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Root creeping, horizontal, subbulbose, and sublignose, contracted; Scape erect, stiff, covered with appressed lanceolate-acuminate sheaths, which are lined & glabrous, flowers in a terminal spikes in the axills of the floral leaves or mere bracts subspirally dense, flowering all at once — lip elliptic, entire margins a little involute undulate crisp & unguiculate late near the apex. Outer petals horizontal & diverging, upper ~~one~~ one often a little bifid, involute & arched. — bracts caudate acum. with the lower light & pellucid green, flowers white, odorous —

Sandy hills. upper Mississippi —

Neottia odorata Willd

Chs A. Geyer del St. Louis 1840.

This is not the same as my specimen of Geyer's Plant, from St Peters River — at least root very different

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Spiranthes simplex
Woods east of Asheville NC Buck forest
Sept 1 1876

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4.25

Corallorhiza ? Kamtschatka Aug 15 1862

4h.

Labellum white spotted, obovate, ~~cuf~~ two ridged, not lobed, finely crenulate

Columella

2 lateral sepals narrower than 3 posterior ones

14 flowers in spike

GEORGE ENGELMANN HERBARIUM
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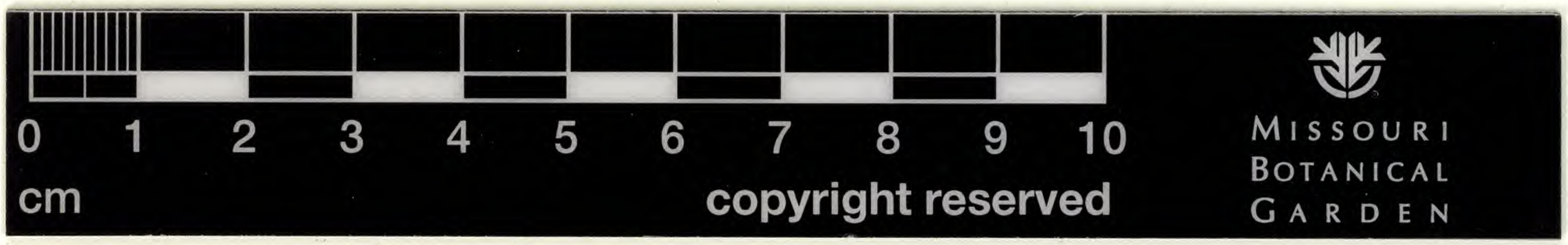
OSBORN HALL TOKYO
JONES & CLARK, Florists' Engravers, St. Louis, Mo.



JONES & LEITCH,
DRUGGISTS,
Corner Fifth and Market Streets, St. Louis, Mo.

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Amherst Canada Dec 16 1879

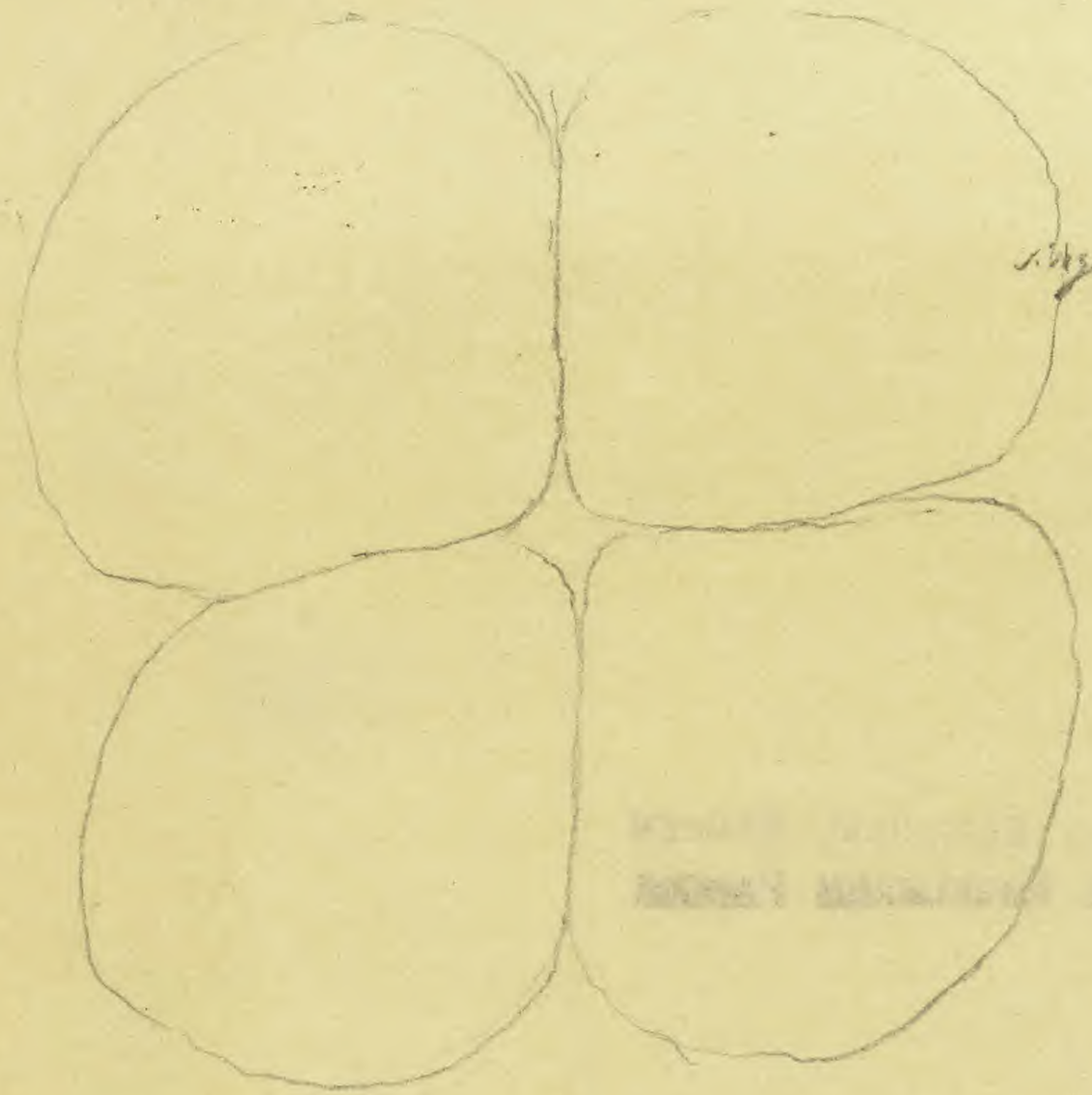
Nashville Dr Gattinger

× 415

9 Cirsium arvense

Pollengrains = 4 ~ theory

style 0.09 mm diam



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Canna

Köhler, d. Canna Blüte, Bot Zeitung 1873.
D.C Bouché Linnaea 8 1833 p. 141 – 168 48 spec. of Canna
D.C. Bouché Linnaea 18. 1844 p. 486 3 Genera of Canna

Cultivate (1873) 1, the tall yellow flowered glaucous Canna, rec[d] fro Shaw's garden as Canna musaefolia

2, Canna with purple brown stem, ovary & calyx, deep crimson flowers

3, Canna with orange flowers green leaves, & calyx

All this have 3 staminal appendages (or three lobes of the upper lip

4 Canna low 2–3 feet high

5 As Batty's I find to dry the broad leaved large brown stemmed Canna, which I have had in cultivation but which never flowered, in bloom; flower deep crimson, with purple-brown ovary & calyx, much like No 2 but much narrower labellum and only 2 lobes of upper lip so called. — Sept 14 1873

Opening of anther case the back long before the flower opens, adhesion of pollen to flat style.

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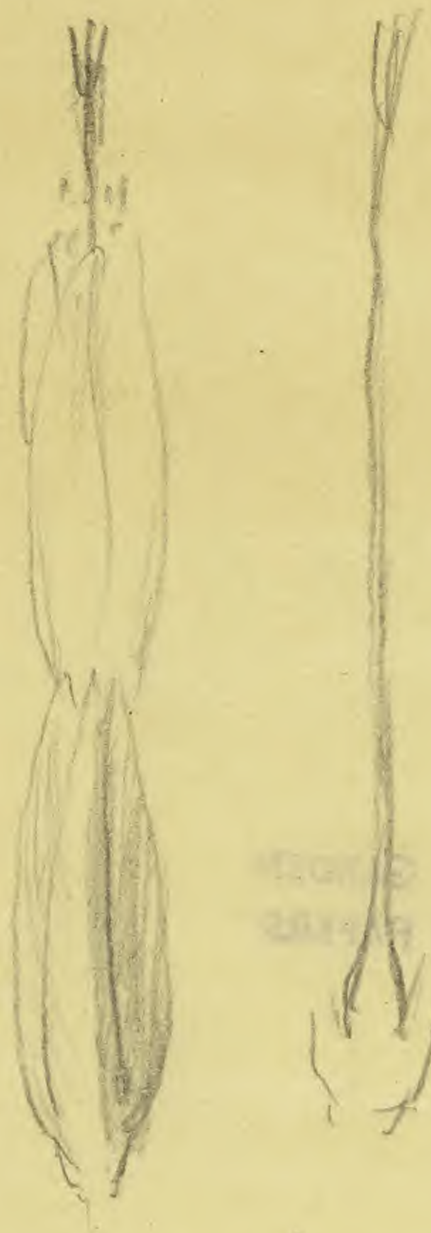
Stravsia splendens June 6 1877

Hort Mechel, Selosia



above carpels
separate, placentas 6
below carpels
united in each cell
only a single placenta

Convolute of
Calyx and Corolla
in opposite direction
(correct ??)

ovum semi superum

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Deutsche Apotheke.

GEO. UDE,

Apothecary and Druggist

No. 3610 North 10th Street,

Between Mallinckrodt and Salisbury, **ST. LOUIS, MO.**

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For .....

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Clarkia 7 recurved petaled stamined
8 stam

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Original Drawing among Ultricularia

topsicum

Habenaria Hookeri Torr.

Creek bottom
woods near
St Louis Co
4 June 1893

frondosa

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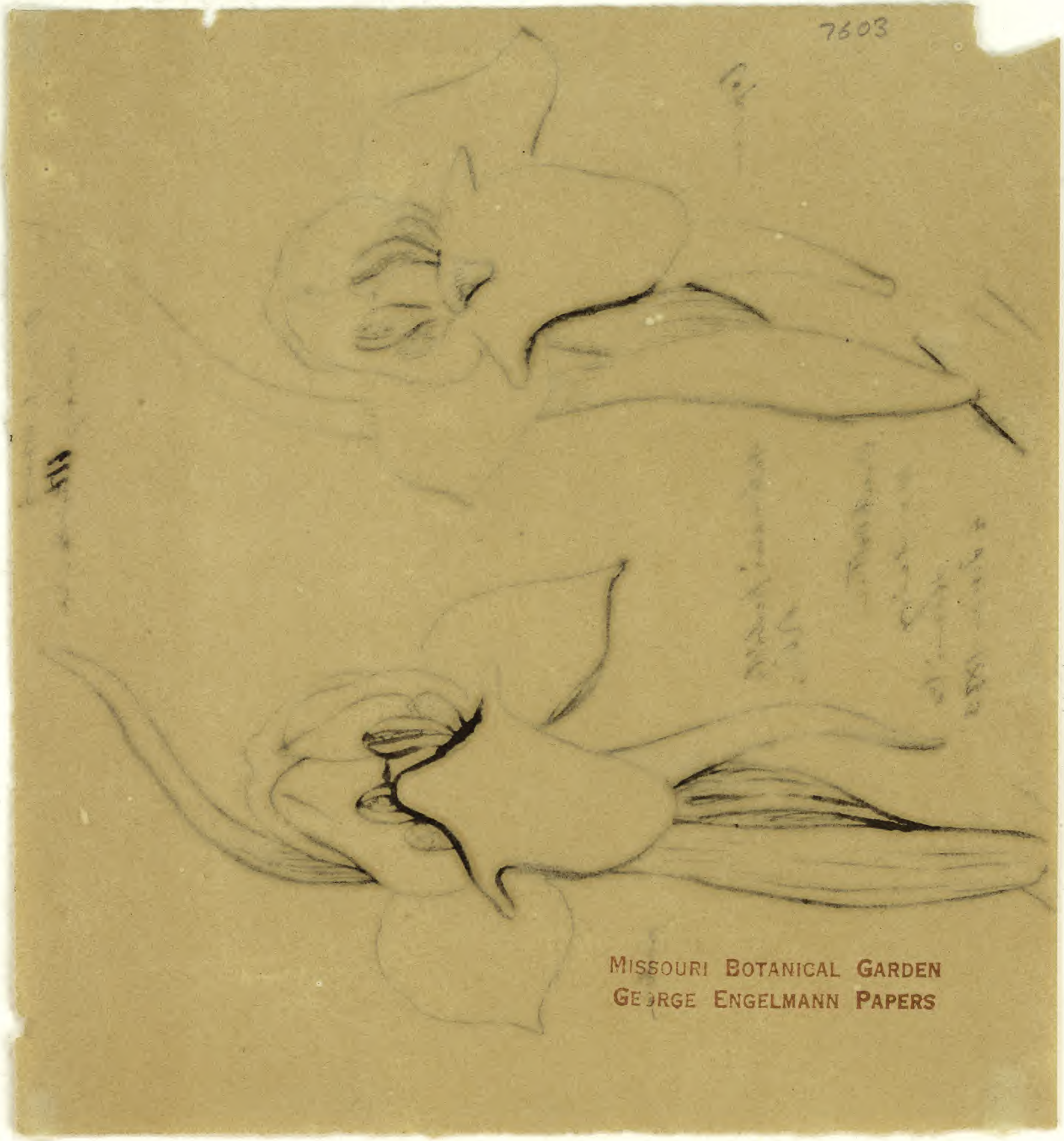

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medio contractis apice patentibus petalis inferioribus ~~ovatis~~ ascendentibus. omnibus canaliculatis glabris Caulibus basi ob oblongo ramoso ramosis ; In Arkansas bei Little Rock 8-15"

302 Orchis tridentata Knoch gesehen; aber in Blüthe fehlen, welche Landsberg Pflanze hat; sonst ist sie der Pflanze ähnlich; Caulis obovat tridentatus dentibus crenulatis

153. Habenaria psycodes : Spreng : Nordmann : Ledebour, Asa Gray: grün von Farbe! radice tuberosa, caule folioso, fol lanceolatis; bracteis lanceolatis germine elongato aequalibus; Caulis bifido, setaceofillo; petalo exteriore inferiore deflexis, petal interiore superiore erecto; linearibus obtusis; calcare clavato germine paulum longiore, subascendente

316. Spiranthes lanceolata ? caule ligneo ramoso ramulosis; ramis nudis, pedicellis brevibus triquetris foliis longe lanceolatis ~~inferioribus~~ superioribus brevioribus ~~superioribus~~ infra glaucis, umbellis brevibus pedunculatis. — Hab. in Arkansas bei Little Rock. — Habe sie gleich der Pflanze des Bruder Nannum Caurifolia, ist aber ein wenig kleiner.

478. Spiranthes Cannabolata ?? caule ligneo ramoso

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~~stylo~~ ~~staminibus~~ ~~corycicos~~ ~~1-2~~ ~~diglandulosa~~
3 fido 1½-2"

2. foliis 3 suppositam Neottiæ ad unicum Spiranthes Aestivalis
Lindl. simillima, differt labello basi utrinque lamina
triloba aucto, lamina lateralibus erectis, intermedia
reflexa. Habitus ut in nostris formis. Flores
non vidi.

480. *Neottia major* (vel verisimilius *cernua*?) radice
fasciculata, tuberibus 2-3, crassiorbibus, foliis
radicalibus evanescentibus densa spicata, scapo vaginato, spica
densa pubescenti, floribus maximis; bracteis ovatis
acutis germine conjunctis gibbis medio contractis
pubescentibus, petalis ovatis obtusis, apice patentibus,
petalis, labello intermedio erecto lateralibus reflexis
magno, rotundato crenulato. — Gigal,
Little Rock (to St. Louis)
Octob 1835. 6-10"

413. *Neottia tenuis* (vel dic *gracilis*?) radice
tuberosa, tubere unico horizontali; fol. radicalibus
evanescent. scapo vaginato, spica laxa spirali
glabriuscula; bracteis ovatis acutis germine
aequalibus; floribus intermedio, petalis subparallelis,
ovato-lanceolatis obtusis
reflexis patentibus, labello sub trilobo crenato.
Riefer co.[2] Ark Little Rock Septemb. 10-12"

474. *Neottia foliosa* (vel dic *humilis*!) radice fasciculata,
tuberibus pluribus, teretiusculis, foliis radicalibus,
lanceolatis, scapo infra folioso, supra vaginato,
spica spirali pubescente, bracteis ovatis acuminatis
germine majoribus floribus mediis, infra gibbis,

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